

VIII.3.3-SET-TS SET TIME SERIES VALUES OPERATION

Identifier: SET-TS

Operation Number: 63

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Array Entries: This Operation uses the P array to pass a specified value to be used for the initialization of the values in a time series. The T array is used to pass the length of the specified time series to be initialized. Carryover values are not used and therefore neither is the C array.

The contents of the P array are as follows:

<u>Position</u>	<u>Contents</u>
1	Operation version number
2-3	Time series identifier
4	Time series data type code
5	Time series data time interval
6	Value to be set at all intervals of the time series

The contents of the T array are as follows:

<u>Position</u>	<u>Contents</u>
1	Operation number
2	Location of the next Operation in the T array
3	Location of the parameters in the P array
4	Location of the time series data in the D array
5	Length of the time series in the D array

Subroutines Names and Functions: Subroutines associated with this Operation are:

<u>Subroutine</u>	<u>Function</u>
PIN63	Read an input card and stores values in the P array
TAB63	Store information about the time series in the T

Subroutine Function

	array
PRP63	Print information about the time series to be set
PUC63	Punch the input card needed for the Operation
EX63	Execute the Operation

SUBROUTINE PIN63 (PO,LEFTP,IUSEP,TS,MTS)

Function: This is the input routine for Operation SET-TS. This routine fills the P array.

Argument List:

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
PO	Output	I*4	Variable	Array beginning at the portion of P array used by this Operation
LEFTP	Input	I*4	1	Space available in P for storage by PO
IUSEP	Output	I*4	1	Amount of space used by PO
TS	Input	R*4	MTS	Array containing information about all time series
MTS	Input	I*4	1	Dimension of the TS array

SUBROUTINE TAB63 (TO,LEFT,IUSET,NXT,LPO,PO,TS,MTS,LWORK,IDT)

Function: Stores time series information needed by SET-TS in the T array. Computes and stores the length of the time series to be set.

Argument List:

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
TO	Output	I*4	Variable	Array beginning at the portion of the T array used by this Operation
LEFT	Input	I*4	1	Space available in the T array for use by TO
IUSET	Output	I*4	1	Amount of space used in the T array by TO
NXT	Input	I*4	1	Starting position of TO in the T array
LPO	Input	I*4	1	Starting position of PO in the P array
PO	Input	R*4	Variable	Array beginning at the portion of the P array for this Operation
TS	Input	R*4	MTS	Array containing information about all time series
MTS	Input	I*4	1	Dimension of the TS array
LWORK	Output	I*4	1	Length of working space is needed
IDT	Output	I*4	1	Time series data time interval

SUBROUTINE PRP63 (TSC)

Function: This routine prints information about the time series that is to be set by Operation SET-TS.

Argument List:

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
TSC	Input	R*4	Variable	Contains information for the time series to be set

SUBROUTINE PUC63 (TSC)

Function: This is the card punch routine for Operation SET-TS. This routine punches the time series identifiers in the same format as the input card for the Operation.

Argument List:

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
TSC	Input	R*4	Variable	Contains information for the time series to be set

SUBROUTINE EX63 (PO,DD,NUM)

Function: This is the execution routine for Operation SET-TS.

Argument List:

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
PO	Input	R*4	Variable	Array beginning at the portion of the P array for this Operation
DD	Output	R*4	Variable	Time series data array
NUM	Input	I*4	1	Number of values in the time series data array